Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FA	ENGINE FAMILY		FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC
2008	8CEXH0912		14.9	Diesel	PROCEDURE	CLASS THOUD	DDI, TC, CAC, ECM, EGR, OC, PTOX	EMD
	ENGINE'S IDLE NS CONTROL		_	ADI	ITIONAL IDLE EN	IISSIONS COI	NTROL 5	<u> </u>
	30g		Engine family 8	KBXL.719KCB-based /	APS exhausting	through the	e after-treatment system of primary	ongino
ENGINE (L	_)	•		ENGINE MOD	ELS/CODES (ra	led nower in	be)	engine.
14.9				See attachme	nt for engine m	viole and re	rip)	
L/M/H HI ECS=em p catalyst; Bl=throttle	G=compressed/liquid DD=light/medium/he hission control system DPF=diesel particul body fuel injection: en_CAC=charge air	efied natur eavy heavy m; TWC/C late filter; SFI/MFI=s	ral gas; LPG=liquefic y-duty dieset; UB=ur DC=three-way/oxidizi PTOX=periodic trap CB / EGP C	ed petroleum gas; E85=85% ell ban bus; HDO=heavy duty Otto ng catalyst; NAC=NOx adsorpt oxidizer; HO25/O2S=healed/or uel injection; DGI=direct gasoli	nanol fuel; MF=multi); ion catalyst; SCR-U (ygen sensor; HAFS	i fuel a.k.a. BF: / SCR-N≕selec VAFS≕healed/a	R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel; titive catalytic reduction – urea / – ammonia; WI pir-fuel-ratio sensor (a.k.a., universal or linear ox puretor; IDMDDI=indirect/direct diesel injection;	J (prefix) ≂warm-
ontrol moat	⊪e; EM≕engine mo	dification;	2 (prefix)=parallei: i	(2) (suffix)=in series;		secondary an I	njection; SPL≅smoke pulf limiter; ECM/PCM=	engine/powertrain
£35≂en¢	une snulliown syste	mither 19	CON 1930.0(a)(b)(A	1956.8(a)(6)(B) or for CNG/LN(JUR 1956.8(a)(6)(C)	: APS ≕inlema	Combustion subliner newer evolutions At Taxable	

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		СО		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	
STD	0.14	0.14	*	*	*	*	15.5	15.5		-	FIF	EURO
FEL	*	•	1.15	1.15	11	1.1	10.0	13.3	0.01	0.01		<u> </u>
CERT	0.01	0.000	1,12	0.92	1 1	0.9	0.0	- 0.4		ļ <u>"</u>		*
VΤΕ	0.	21		72	1.1	7	0.8	0.1	0.01	0.005	*	*
						.1	19.4		0.02		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: Engines in this engine family ("primary engines") may include the auxiliary power system (APS) described above for additional idle emissions control subject to the following stipulations. (A) Engine exhaust from the APS is routed directly into the exhaust system of the primary engine upstream of its diesel particulate matter aftertreatment device. And, (B) The manufacturer shall ensure that each primary engine so equipped with the APS is provided with an approved "Verified Clean APS" label to be affixed to the vehicle into which the primary engine is installed. The "Verified Clean APS" label shall conform to 13 CCR 2485(c)(3)(D) and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended Sep. 1, 2006.

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BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified pending final approval of "Certified Clean Idle" and "Verified Clean APS" vehicle labels. The manufacturer has until July 31, 2008 to resolve concerns on this conditional certification. This Executive Order is effective through July 31, 2008; engines produced after this date are not covered by this Executive Order.

This Executive Order hereby supersedes Executive Order A-021-0471-1 dated March 5, 2008.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

day of June 2008.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

Engine Family 8CEXH0912XAL		2.Engine Mode	3.8HP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for disset only)	5.Fuel Rate: (bs/hr) @ peak H (for dissets only)	P 6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	S.Fuel Rel	e: 9.Emission Control torqueDevice Per SAE J1930
8CEXHO912XAL	1434;FR10637	ISX 800	525@1800	318	193	1850@1200	367		
111 1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	1434;FR10636	ISX 500ST	525@1800	318	193	1850@1200	367	149	TOL POX PCM.
8CEXH0912XAL	1434;FR10638	ISX 500	525@1800	318	193	1650@1200		149	TC, PTOX, PCM
SCEXH0912XAL	1434;FR10639	ISX 485ST	500@1500	299	181		326	132	CAC, PTOX, PGM.
BCEXH0912XAL	1434;FR 10640	ISX 485	500@1500	299	181	1850@1200	367	149	E62 PIOX, PCM.
SCEXH0912XAL	1434;FR10641	ISX 485	500@1800	299		1850@1200	367	149	OF PTOX BCM.
CEXH0912XAL	1434;FR10642	ISX 450ST	450@1800	267	181	1650@1200	326	132	PRICETOX PCM
CEXHO912XAL	1434;FR10644	ISX 450	450@1800		162	1750@1200	342	139	GALPTOX, PCM.
CEPHOU12XAL	1434;FR10645	ISX 460	450@1800	267	162	1650@1200	326	132	PROX. PCM.
CATALORIZNAL	1434;FR10643	ISX 450ST		267	162	1550@1200	298	120	FIX PTOX. FICM.
CEXHOSTZXAL	1434;FR10634	15X 500V	450@1800	267	162	1750@1200	342	139	PTOK PCM
CEXH0912XAL	1434;FR10635	ISX 500V	500@1800	299	181	1850@1200	367	149	PTOX PCM.
C) P- 141 4	2733;FR10637	ISX 500	500@1800	299	181	1650@1200	326	132	
EVIDA	2733;FR10636		525@1800	318	193	1850@1200	387	149	PTOX PCM.
	2733;FR10638	ISX 500ST	525 @ 1800	318	193	1850@1200	367		PTOK, PCM,
· · · · · · · · · · · · · · · · · · ·	2733;FR10639	ISX 500	525@ 1800	318 ·	193	1650@1200	326	149	РТОХ, РСМ,
		1SX 485ST	500@1800	299	181	1850@1200	367	132	PTOX, PCM,
·	2733;FR10640	ISX 485	500@1800	299	181	1850@1200		149	РТОХ, РСМ,
EVI 100 - 01 - 1	2733;FR10641	ISX 485	500@1800	299	181		367	149	PTOX. PCM.
	2733;FR10634	ISX 500V	500@1800	299		1650@1200	326	132	PITOX, PCN,
	733;FR10635	ISX 500V	500@1800	299		1850@1200	367	149	PTOX, PCM
EXH0912XAL 2	733;FR10695	10V +===	478@1800			1650@1200	326	132	РТОХ, РСМ.
				280	170	1750@1200	348	141	PTOX, PCM.